

6 Aug 1993

FR0AA-A
METER, FREQUENCY

1. GENERAL. This procurement requires a line-frequency meter.

2. CLASSIFICATION. Type II, Class 3, Style EP, and Color R in accordance with MIL-T-28800 for shipboard applications.

3. OPERATIONAL REQUIREMENTS. The equipment shall be capable of measuring power line frequency within the parameters and accuracies specified below.

3.1 Frequency characteristics.

3.1.1 Frequency range. 395 to 405 Hz sinewave.

3.1.2 Accuracy. ± 0.2 Hz.


3.1.3 Resolution. 0.1 Hz.

3.2 Electrical characteristics.

3.2.1 Voltage range. 108 to 132 Vac and 405 to 495 Vac single phase.

3.2.2 Burden. The burden placed on the circuit under test shall not exceed 5 volt-amperes.

3.2.3 Connections. The equipment shall have three 5-way binding posts, one post being common, one post for 120 Vac and one for 450 Vac.

3.3 Readout. The equipment shall be equipped with either a 3- digit LCD or LED display or a taut-band analog movement with a mirrored scale.

4. GENERAL REQUIREMENTS.

4.1 Power source. The equipment shall not require any power other than the circuit under test.

4.2 Weight. 5 kg (11 lb) maximum.

4.3 Dimensions. The total volume shall not exceed 4100 cc (250 cu. in.).

4.4 Lithium batteries. Per MIL-T-28800, lithium batteries are prohibited without prior authorization. A request for approval for the use of lithium batteries, including those encapsulated in integrated circuits, shall be submitted to the procuring activity at the time of submission of proposals. Approval shall apply only to the specific model proposed.